BRUHATH BANGALORE MAHANAGARA PALIKE

YALAHANKA ELECTRICAL DIVISION

E MEASUREMENT BOOK

Name of work:- Maintenance & Repairs to Existing Park Lightings, etc to the existing Installation in Park at Byatarayanapura Constituency.

BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work: :-Maintenance & Repairs to Existing Park Lightings, etc to the existing Installation in Park at Byatarayanapura Constituency.

Name of Contractror of nature of Agency:- Sri Pradeep Kumar S.N. Pro of M/S. Ganga Enterprises

Job Code No:- 007-20-000057

Ref no and Date of commencement of work:-EE/Ele/YZ/WO/000017/20-21 Date:16/06/2020

Measurement Book No: 2570/19-20 **Page No:** 256928 to 932.

Bill NO :-

Sl. No.	Description of item		Unit	Present Measurements		
				Qty	Tender Full Rate	Cost
1	Digging of Pits 1.8 mtr depth for errection of 9 to 10mtr Long Steel/RCC/PSC supports as per approved Drawing.Ordinary Soil		Nos	5	378.00	1890.00
2	Pole concreting with CC 1:2:4 (without coping) f) 8mtrs support (400x400x1500mm)		Nos	5	682.00	3410.00
3	Any Dismantling work 90% of the corresponding erection charges(304x90%=273.6)		Nos	5	236.00	1180.00
4	Transporting and erecting of 3.5 Mtrs long Swged Tubelor park poles including Digging of pit 45x45x100cms & providing 1:2:4 concrete of size 35x35x130 cms Including coping as per the detaild enclosed civil estimate & drawimg		Nos	5	972.00	4860.00
1	CE/08/TC/26/SNP/00/24/S	Sahakaranagara				
2	CE/08/TC/26/SNP/00/30/S	Sahakaranagara				
3	CE/08/TC/26/SNP/00/35/S	Sahakaranagara				
4	CE/08/TC/26/SNP/00/37/S	Sahakaranagara				
5	CE/08/TC/26/SNP/00/08/S	Sahakaranagara				
5	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A, PWD Elec SR 2006-07.32 / 9		Each	6	2200.00	13200.00
6	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM KPWD ELE SR 2014-15		Per Mtr	98	143.00	14014.00
7	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR		Per Mtr	98	8.00	784.00
1	AB Cable Conical pole TO RCC Pole mains	35 Mtrs				
	II) Near 716/80/1, Starling apartment 7th Cross Judicial L/o Yelahank New Town					
2	GE/04/TC-350/JL/00/07/01/S TO GE/04/TC-350/JL/00/07/02/S	40 Mtrs				
3	GE/04/TC-350/JL/00/07/02/S TO GE/04/TC-350/JL/00/07/03/S	40 Mtrs				
8	B. Work to be carried out as per requirement & actuals and as per the direction of the in charge engineer, Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/looting of the pole.a)5 mtr pole 72/13.17.1		Each	5	550.00	2750.00

9	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.26/5.14.1		Each	6	3030.00	18180.0
10	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.100-125Amps26/5.13.4		Each	6	6200.00	37200.0
1	Ganesha temple Park, Sahakaranagara					
2	Ganesha Park , M.S Palya ,					
3	Near G.K. Naidu Park					
4	Near Yelahanka 5th stage Bus stand					
5	Yalahanka Old town Lake Between Venkatala and Dhobhi Ghat					
6	Yalahanka Old town Lake Between Venkatala and Dhobhi Ghat					
11	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898. 50-63Amps TPN 5.17.9		Each	12	1567.00	18804
12	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. KPWD ELE SR Page-24/5.7.3 100Amps		Each	18	349.00	6282
13	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm40/6.4.4		Mtrs	616	115.00	70840
14	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm		Mtrs	616	15.00	9240
	A) UG Cable 16x4 Judicial L/o under pass Highmast mains Tubular Poles lights					
1	GE/04/TC/JL/UB/05/LED/F TOGE/04/TC/JL/UB/04/LED/F	35 Mtrs				
2	GE/04/TC/JL/UB/04/LED/F TOGE/04/TC/JL/UB/03/LED/F	35 Mtrs				
3	GE/04/TC/JL/UB/03/LED/F TOGE/04/TC/JL/UB/02/LED/F	35 Mtrs				
4	GE/04/TC/JL/UB/02/LED/F TOGE/04/TC/JL/UB/01/LED/F	35 Mtrs				
5	GE/04/TC/JL/UB/06/LED/F TOGE/04/TC/JL/UB/07/LED/F	35 Mtrs				
6	GE/04/TC/JL/UB/07/LED/F TOGE/04/TC/JL/UB/08/LED/F	35 Mtrs				
7	GE/04/TC/JL/UB/08/LED/F TOGE/04/TC/JL/UB/09/LED/F	35 Mtrs				
8	GE/04/TC/JL/UB/09/LED/F TOGE/04/TC/JL/UB/10/LED/F	35 Mtrs				
9	GE/04/TC/JL/UB/10/LED/F TOGE/04/TC/JL/UB/11/LED/F	35 Mtrs				
10	GE/04/TC/JL/UB/12/LED/F TOGE/04/TC/JL/UB/13/LED/F	35 Mtrs				
11	GE/04/TC/JL/UB/13/LED/F TOGE/04/TC/JL/UB/14/LED/F	35 Mtrs				
12	GE/04/TC/JL/UB/14/LED/F TOGE/04/TC/JL/UB/15/LED/F	35 Mtrs				
13	GE/04/TC/JL/UB/15/LED/F TOGE/04/TC/JL/UB/16/LED/F	35 Mtrs				
14	GE/04/TC/JL/UB/16/LED/F TOGE/04/TC/JL/UB/17/LED/F	35 Mtrs				
15	GE/04/TC/JL/UB/19/LED/F TOGE/04/TC/JL/UB/20/LED/F	35 Mtrs				
16	GE/04/TC/JL/UB/20/LED/F TOGE/04/TC/JL/UB/21/LED/F	35 Mtrs				
17	GE/04/TC/JL/UB/21/LED/F TOGE/04/TC/JL/UB/22/LED/F	35 Mtrs				
18	GE/04/TC/JL/UB/22/LED/F TOGE/04/TC/JL/UB/23/LED/F	35 Mtrs				
	Total 630 Mtrs					
15	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc.,complete.41/6.6.1		Mtrs	566	48.00	27168

16
17
18
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1
2
20

Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete.16SWG KPWD ELE SR Page-30/5.42.2	sq.cms	148950	0.25	37237.50
Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm 6/2.3.3	Mtrs	67	70.00	4690.00
Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm KPWD ELE SR Page-31/5.41.1	mtr	10	255.00	2550.00
Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S355JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended 7 meters - Top 75mm and bottom 145 mm dia.page-12/4.4	Nos	2	9800.00	19600.00
Balaji L/o park Diffence L/o Vidyaranyapura Ward No-09 1 No				
MCECHS layout Park Ward No 05 1 No				
Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection-Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm.Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source LED Floodlight 100W.	Each	2	7000.00	14000.00
Balaji L/o park Diffence L/o Vidyaranyapura Ward No-09 2 Nos				

21	Supply of LED pole mounting type post top lantern with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/ clear glass material, delivering superior light output.Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB . LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in- house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED Source.LED Post Top Lantern with 25 watts		Nos	8	5000.00	40000
D)	**D) Park light LED Sahakaranagara Ward No 07**					
1	GE/07/TC/SN/PK/24/M					
2	GE/07/TC/SN/PK/22/M					
3	GE/07/TC/SN/PK/20/M					
4	GE/07/TC/SN/PK/18/M					
5	GE/07/TC/SN/PK/16/M					
6	GE/07/TC/SN/PK/14/M					
7	GE/07/TC/SN/PK/12/M					
8	GE/07/TC/SN/PK/10/M					
	Total Rs					**34787**
	Add GST Item No 08 to 21 Rs 308411.5 @ 12%					3700
	Total Rs					**38488**

CERTIFICATE:

1.This is certify that the work done is saticefactorily.
2.This is certify that the bill amount calimed in this bill does not claimed in any of the previous bill.

Junior Engineer(Elec)
Yalahanka Division

Asst.Exe.Engineer(Elec)
Yalahanka Division

Executive Engineer
Electrical Division
Yelahanka Zone BBMP
Byatarayanapura, Bangalore-92